



Patent  
Attorney's Docket No. 001560-223

22/E  
12-19-97  
AW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Miyoko ONO et al.

Application No.: 08/693,499

Filed: August 7, 1996

For: HOP EXTRACT AND USE THEREOF

Group Art Unit: 1302

Examiner: C. Sherrer

GROUP 1302  
12/19/97

DO NOT ENTER

OK TO ENTER

OK AS ENTERED

REPLY AND AMENDMENT

In complete response to the Official Action dated June 4, 1997, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend the claims as follows:

Sub H1  
1. (Amended) A process for production of an essential oil- rich hop extract, comprising the steps of:

(1) extracting hops with supercritical or subcritical carbon dioxide solvent at a pressure of 80 to 100 kg/cm<sup>2</sup> to obtain a carbon dioxide extract; and

7.345 MPa  
(2) separating an essential oil-rich hop extract from the carbon dioxide extract,

E1  
F  
wherein the ratio of essential oil components (ml) to  $\alpha$ -acid (g) in the <sup>9. extracted</sup> ~~original~~ hops is increased by at least 2.